RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _____09/852, 958_____

Source: _____IFW/6_____

Date Processed by STIC: _____12/30/2005_____

ENTERED

IFW16

RAW SEQUENCE LISTING   DATE: 12/30/2005
PATENT APPLICATION: US/09/852,958   TIME: 13:01:04

Input Set : A:\BTHO1006.txt
Output Set: N:\CRF4\12302005\I852958.raw

     3 <110> APPLICANT: Sirbasku, Davis
     5 <120> TITLE OF INVENTION: Compositions and Methods for Demonstrating
Secretory Immune
     6   System Regulation of Steroid Hormone Responsive Cancer Cell
     7   Growth
     9 <130> FILE REFERENCE: BTHO:1006
    11 <140> CURRENT APPLICATION NUMBER: 09/852,958
    12 <141> CURRENT FILING DATE: 2001-05-10
    14 <150> PRIOR APPLICATION NUMBER: 60/203,314
    15 <151> PRIOR FILING DATE: 2000-05-10
    17 <150> PRIOR APPLICATION NUMBER: 60/208,348
    18 <151> PRIOR FILING DATE: 2000-05-31
    20 <150> PRIOR APPLICATION NUMBER: 60/208,111
    21 <151> PRIOR FILING DATE: 2000-05-31
    23 <150> PRIOR APPLICATION NUMBER: 60/229,071
    24 <151> PRIOR FILING DATE: 2000-08-30
    26 <150> PRIOR APPLICATION NUMBER: 60/231,273
    27 <151> PRIOR FILING DATE: 2000-09-08
    29 <160> NUMBER OF SEQ ID NOS: 26
    31 <170> SOFTWARE: PatentIn version 3.3
    33 <210> SEQ ID NO: 1
    34 <211> LENGTH: 7
    35 <212> TYPE: PRT
    36 <213> ORGANISM: Homo sapiens
    39 <220> FEATURE:
    40 <221> NAME/KEY: misc_feature
    41 <222> LOCATION: (3)..(3)
    42 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
    44 <220> FEATURE:
    45 <221> NAME/KEY: misc_feature
    46 <222> LOCATION: (5)..(6)
    47 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
    49 <400> SEQUENCE: 1
W--> 51 Ile Leu Xaa Tyr Xaa Xaa Leu
    52 1   5
    55 <210> SEQ ID NO: 2
    56 <211> LENGTH: 7
    57 <212> TYPE: PRT
    58 <213> ORGANISM: homo sapiens
    61 <220> FEATURE:
    62 <221> NAME/KEY: misc_feature
    63 <222> LOCATION: (3)..(3)
    64 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
    66 <220> FEATURE:

RAW SEQUENCE LISTING   DATE: 12/30/2005
PATENT APPLICATION: US/09/852,958   TIME: 13:01:04

Input Set : A:\BTH01006.txt
Output Set: N:\CRF4\12302005\I852958.raw


```
 67 <221> NAME/KEY: misc_feature
 68 <222> LOCATION: (5)..(6)
 69 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 71 <400> SEQUENCE: 2
W--> 73 Val Leu Xaa Tyr Xaa Xaa Leu
 74 1               5
 77 <210> SEQ ID NO: 3
 78 <211> LENGTH: 381
 79 <212> TYPE: PRT
 80 <213> ORGANISM: homo sapiens
 83 <220> FEATURE:
 84 <221> NAME/KEY: mat_peptide
 85 <222> LOCATION: (1)..(381)
 87 <400> SEQUENCE: 3
 89 Arg His Thr Arg Gln Gly Trp Ala Leu Arg Pro Val Leu Pro Thr Gln
 90 1               5                   10                  15
 93 Ser Ala His Asp Pro Pro Ala Val His Leu Ser Asn Gly Pro Gly Gln
 94              20                  25                  30
 97 Glu Pro Ile Ala Val Met Thr Phe Asp Leu Thr Lys Ile Thr Lys Thr
 98          35                  40                  45
101 Ser Ser Ser Phe Glu Val Arg Thr Trp Asp Pro Glu Gly Val Ile Phe
102      50                  55                  60
105 Tyr Gly Asp Thr Asn Pro Lys Asp Asp Trp Phe Met Leu Gly Leu Arg
106 65                  70                  75                  80
109 Asp Gly Arg Pro Glu Ile Gln Leu His Asn His Trp Ala Gln Leu Thr
110              85                  90                  95
113 Val Gly Ala Gly Pro Arg Leu Asp Asp Gly Arg Trp His Gln Val Glu
114              100                 105                 110
117 Val Lys Met Glu Gly Asp Ser Val Leu Leu Glu Val Asp Gly Glu Glu
118          115                 120                 125
121 Val Leu Arg Leu Arg Gln Val Ser Gly Pro Leu Thr Ser Lys Arg His
122      130                 135                 140
125 Pro Ile Met Arg Ile Ala Leu Gly Gly Leu Leu Phe Pro Ala Ser Asn
126 145                 150                 155                 160
129 Leu Arg Leu Pro Leu Val Pro Ala Leu Asp Gly Cys Leu Arg Arg Asp
130              165                 170                 175
133 Ser Trp Leu Asp Lys Gln Ala Glu Ile Ser Ala Ser Ala Pro Thr Ser
134              180                 185                 190
137 Leu Arg Ser Cys Asp Val Glu Ser Asn Pro Gly Ile Phe Leu Pro Pro
138          195                 200                 205
141 Gly Thr Gln Ala Glu Phe Asn Leu Arg Asp Ile Pro Gln Pro His Ala
142      210                 215                 220
145 Glu Pro Trp Ala Phe Ser Leu Asp Leu Gly Leu Lys Gln Ala Ala Gly
146 225                 230                 235                 240
149 Ser Gly His Leu Leu Ala Leu Gly Thr Pro Glu Asn Pro Ser Trp Leu
150              245                 250                 255
153 Ser Leu His Leu Gln Asp Gln Lys Val Val Leu Ser Ser Gly Ser Gly
154              260                 265                 270
157 Pro Gly Leu Asp Leu Pro Leu Val Leu Gly Leu Pro Leu Gln Leu Lys
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RAW SEQUENCE LISTING   DATE: 12/30/2005
PATENT APPLICATION: US/09/852,958   TIME: 13:01:04

Input Set : A:\BTHO1006.txt
Output Set: N:\CRF4\12302005\I852958.raw

```
158         275                    280                    285
161 Leu Ser Met Ser Arg Val Val Leu Ser Gln Gly Ser Lys Met Lys Ala
162     290                    295                    300
165 Leu Ala Leu Pro Pro Leu Gly Leu Ala Pro Leu Leu Asn Leu Trp Ala
166 305                    310                    315                    320
169 Lys Pro Gln Gly Arg Leu Phe Leu Gly Ala Leu Pro Gly Glu Asp Ser
170                    325                    330                    335
173 Ser Thr Ser Phe Cys Leu Asn Gly Leu Trp Ala Gln Gly Gln Arg Leu
174                    340                    345                    350
177 Asp Val Asp Gln Ala Leu Asn Arg Ser His Glu Ile Trp Thr His Ser
178         355                    360                    365
181 Cys Pro Gln Ser Pro Gly Asn Gly Thr Asp Ala Ser His
182     370                    375                    380
185 <210> SEQ ID NO: 4
186 <211> LENGTH: 367
187 <212> TYPE: PRT
188 <213> ORGANISM: Oryctolagus cuniculus
190 <400> SEQUENCE: 4
192 Thr Gln Arg Ala Gln Asp Ser Pro Ala Val His Leu Ile Asn Gly Leu
193 1                     5                    10                    15
196 Gly Gln Glu Pro Ile Gln Val Leu Thr Phe Asp Leu Thr Arg Leu Val
197             20                    25                    30
200 Lys Ala Ser Ser Ser Phe Glu Leu Arg Thr Trp Asp Ser Glu Gly Val
201         35                    40                    45
204 Ile Phe Tyr Gly Asp Thr Ser Pro Lys Asp Asp Trp Phe Met Leu Gly
205     50                    55                    60
208 Leu Arg Asp Gly Arg Pro Glu Ile Gln Met His Asn Pro Trp Ala Gln
209 65                    70                    75                    80
212 Leu Thr Val Gly Ala Gly Pro Arg Leu Asp Asp Gly Ser Trp His Gln
213             85                    90                    95
216 Val His Val Lys Ile Arg Gly Asp Ser Val Leu Leu Glu Val Asp Gly
217             100                    105                    110
220 Lys Glu Val Leu Arg Leu Ser Gln Val Ser Gly Thr Leu His Asp Lys
221         115                    120                    125
224 Pro Gln Pro Val Met Lys Leu Ala Val Gly Gly Leu Leu Phe Pro Pro
225         130                    135                    140
228 Ser Ser Leu Arg Leu Pro Leu Val Pro Ala Leu Asp Gly Cys Leu Arg
229 145                    150                    155                    160
232 Arg Gly Ser Trp Leu Asp Pro Gln Ala Gln Ile Ser Ala Ser Ala His
233             165                    170                    175
236 Ala Ser Arg Arg Ser Cys Asp Val Glu Leu Gln Pro Gly Ile Phe Phe
237             180                    185                    190
240 Pro Pro Gly Thr His Ala Glu Phe Ser Leu Gln Asp Ile Pro Gln Pro
241         195                    200                    205
244 Gln Thr Glu Pro Trp Ala Phe Ser Leu Asp Leu Glu Leu Lys Pro Ser
245         210                    215                    220
248 Glu Gly Ser Gly Arg Leu Leu Ala Leu Gly Thr Pro Glu Asp Pro Asn
249 225                    230                    235                    240
252 Trp Leu Ser Leu His Leu Gln Asp Gln Lys Val Val Leu Ser Ser Gly
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RAW SEQUENCE LISTING   DATE: 12/30/2005
PATENT APPLICATION: US/09/852,958   TIME: 13:01:04

Input Set : A:\BTH01006.txt
Output Set: N:\CRF4\12302005\I852958.raw

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253                  245                  250                  255
256 Met Glu Pro Gly Leu Asp Leu Pro Leu Ala Trp Gly Leu Pro Leu Gln
257              260                  265                  270
260 Leu Lys Leu Gly Val Ser Thr Ala Val Leu Ser Gln Gly Ser Lys Lys
261          275                  280                  285
264 Gln Ala Leu Gly Leu Pro Pro Ser Gly Leu Gly Pro Leu Leu Asn Leu
265      290                  295                  300
268 Trp Ala Gln Pro Gln Gly Arg Leu Phe Leu Gly Ala Leu Pro Gly Glu
269 305                  310                  315                  320
272 Asp Ser Ser Ala Ser Phe Cys Leu Asp Gly Leu Trp Ala Gln Gly Gln
273              325                  330                  335
276 Lys Leu Asp Met Asp Lys Ala Leu Asn Arg Ser Gln Asp Ile Trp Thr
277          340                  345                  350
280 His Ser Cys Pro Ser Ser Pro Gly Asn Gly Thr Asp Thr Ser His
281          355                  360                  365
284 <210> SEQ ID NO: 5
285 <211> LENGTH: 373
286 <212> TYPE: PRT
287 <213> ORGANISM: Rattus norvegicus
289 <400> SEQUENCE: 5
291 Leu Arg His Ile Asp Pro Ile Gln Ser Ala Gln Asp Ser Pro Ala Lys
292 1                5                  10                   15
295 Tyr Leu Ser Asn Gly Pro Gly Gln Glu Pro Val Thr Val Leu Thr Ile
296              20                   25                   30
299 Asp Leu Thr Lys Ile Ser Lys Pro Ser Ser Ser Phe Glu Phe Arg Thr
300          35                   40                   45
303 Trp Asp Pro Glu Gly Val Ile Phe Tyr Gly Asp Thr Asn Thr Glu Asp
304      50                   55                   60
307 Asp Trp Phe Met Leu Gly Leu Arg Asp Gly Gln Leu Glu Ile Gln Leu
308 65                   70                   75                   80
311 His Asn Leu Trp Ala Arg Leu Thr Val Gly Phe Gly Pro Arg Leu Asn
312              85                   90                   95
315 Asp Gly Arg Trp His Pro Val Glu Leu Lys Met Asn Gly Asp Ser Leu
316          100                  105                  110
319 Leu Leu Trp Val Asp Gly Lys Glu Met Leu Cys Leu Arg Gln Val Ser
320          115                  120                  125
323 Ala Ser Leu Ala Asp His Pro Gln Leu Ser Met Arg Ile Ala Leu Gly
324      130                  135                  140
327 Gly Leu Leu Leu Pro Thr Ser Lys Leu Arg Phe Pro Leu Val Pro Ala
328 145                  150                  155                  160
331 Leu Asp Gly Cys Ile Arg Arg Asp Ile Trp Leu Gly His Gln Ala Gln
332              165                  170                  175
335 Leu Ser Thr Ser Ala Arg Thr Ser Leu Gly Asn Cys Asp Val Asp Leu
336          180                  185                  190
339 Gln Pro Gly Leu Phe Phe Pro Pro Gly Thr His Ala Glu Phe Ser Leu
340          195                  200                  205
343 Gln Asp Ile Pro Gln Pro His Thr Asp Pro Trp Thr Phe Ser Leu Glu
344      210                  215                  220
347 Leu Gly Phe Lys Leu Val Asp Gly Ala Gly Arg Leu Leu Thr Leu Gly
```

```
348 225                   230                   235                   240
351 Thr Gly Thr Asn Ser Ser Trp Leu Thr Leu His Leu Gln Asp Gln Thr
352                   245                   250                   255
355 Val Val Leu Ser Ser Glu Ala Glu Pro Lys Leu Ala Leu Pro Leu Ala
356                   260                   265                   270
359 Val Gly Leu Pro Leu Gln Leu Lys Leu Asp Val Phe Lys Val Ala Leu
360             275                   280                   285
363 Ser Gln Gly Pro Lys Met Glu Val Leu Ser Thr Ser Leu Leu Arg Leu
364         290                   295                   300
367 Ala Ser Leu Trp Arg Leu Trp Ser His Pro Gln Gly His Leu Ser Leu
368 305                   310                   315                   320
371 Gly Ala Leu Pro Gly Glu Asp Ser Ser Ala Ser Phe Cys Leu Ser Asp
372                   325                   330                   335
375 Leu Trp Val Gln Gly Gln Arg Leu Asp Ile Asp Lys Ala Leu Ser Arg
376             340                   345                   350
379 Ser Gln Asp Ile Trp Thr His Ser Cys Pro Gln Ser Pro Ser Asn Asp
380         355                   360                   365
383 Thr His Thr Ser His
384         370
387 <210> SEQ ID NO: 6
388 <211> LENGTH: 353
389 <212> TYPE: PRT
390 <213> ORGANISM: Phodopus sungorus
392 <400> SEQUENCE: 6
394 Asn Gly Pro Gly Gln Glu Pro Val Ala Val Met Thr Ile Asp Leu Thr
395 1                   5                   10                  15
398 Gln Met Ser Lys Pro Tyr Ser Ser Phe Glu Phe Arg Thr Leu Asp Pro
399             20                  25                  30
402 Glu Gly Val Ile Phe Tyr Gly Asp Thr Asn Thr Lys Asp Asp Trp Phe
403         35                  40                  45
406 Met Leu Gly Leu Arg Asp Gly Gln Leu Glu Ile Gln Met His Asn Pro
407     50                  55                  60
410 Trp Ala Gln Leu Thr Val Gly Phe Gly Pro Arg Leu Asn Asp Gly Arg
411 65                  70                  75                  80
414 Trp His Gln Val Glu Leu Lys Met Ser Gly Asp Ser Leu Gln Leu Trp
415                   85                  90                  95
418 Val Asp Gly Lys Glu Leu Leu Cys Leu Arg Gln Ile Ser Gly Thr Leu
419             100                 105                 110
422 Ala Asn Asn Ser Trp Pro Ser Met Arg Ile Ala Leu Gly Gly Leu Leu
423         115                 120                 125
426 Leu Pro Thr Ser Ser Leu Arg Phe Pro Leu Val Pro Ala Leu Asp Gly
427     130                 135                 140
430 Cys Leu Arg Arg Asp Thr Trp Leu Gly His Gln Val His Leu Ser Pro
431 145                 150                 155                 160
434 Ser Ala Pro Asn Leu Gly Asn Cys Asp Val Asp Leu Gln Pro Gly Leu
435                   165                 170                 175
438 Phe Phe Pro Gln Gly Thr His Ala Glu Phe Ser Leu Gln Asp Ile Pro
439             180                 185                 190
442 Gln Pro Arg Thr Asp Pro Trp Ser Phe Ser Leu Glu Leu Gly Leu Lys
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 12/30/2005
PATENT APPLICATION: US/09/852,958   TIME: 13:01:05

Input Set : A:\BTHO1006.txt
Output Set: N:\CRF4\12302005\I852958.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the
<220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 3,5,6
Seq#:2; Xaa Pos. 3,5,6
Seq#:13; Xaa Pos. 5
Seq#:21; Xaa Pos. 5
Seq#:22; Xaa Pos. 6

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26

VERIFICATION SUMMARY   DATE: 12/30/2005
PATENT APPLICATION: US/09/852,958   TIME: 13:01:05

Input Set : A:\BTHO1006.txt
Output Set: N:\CRF4\12302005\I852958.raw

L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0